

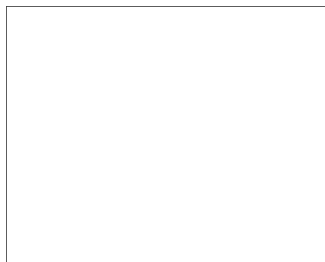
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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER**

**VORONEZH - ROSTOV MICROWAVE LINE
USSR**



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**VORONEZH - ROSTOV MICROWAVE LINE
USSR**

ABSTRACT

1. A microwave radio relay line between Voronezh and Rostov, USSR, has been identified on KEYHOLE photography. The line consists of 12 radio relay stations. This report contains a description of each station with significant measurements, a map of the line, and representative photographs.

INTRODUCTION

2. The Voronezh-to-Rostov microwave line parallels a north-south pipeline and consists of 12 radio relay stations (Figure 1). Seven stations lie between Semiluki Radio Relay Station just west of Voronezh and Lugansk Radio Relay Station. Three stations lie between Lugansk and Rostov. The stations are situated from 10 to 35 nautical miles (nm) apart.

3. The radio relay stations on this line all have R60/120 periscopic antennas. Ten of the stations have two R60/120 antennas each; the other two stations, Lugansk and Rovenki, have only one discernible. The entire microwave line was covered by  photography of fair-to-good interpretability.

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4. The microwave facilities at Lugansk include, in addition to Lugansk Radio Relay Station, Voroshilovgrad Radio Relay and TV and FM Broadcast Center. A TV broadcast antenna and an R600 microwave antenna are mounted on the tower at this facility. This installation is not part of the Voronezh - Rostov microwave line.

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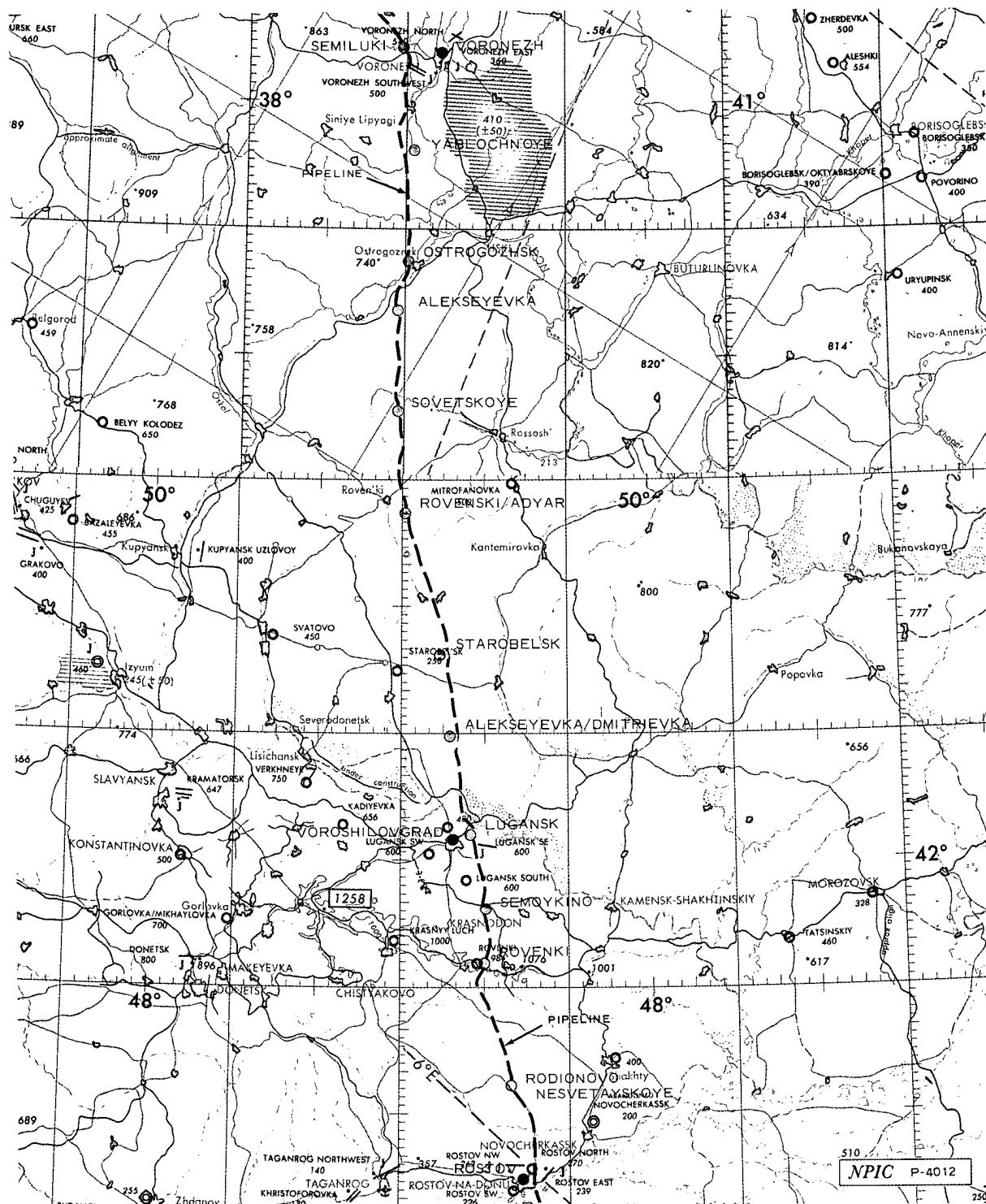


FIGURE 1. RADIO RELAY STATIONS ON THE VORONEZH - ROSTOV MICROWAVE LINE, USSR

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BASIC DESCRIPTION

6. The following stations comprise the Voronezh - Rostov microwave line.

7. Semiluki Radio Relay Station, [REDACTED] 51-41-15N 038-59-15E. This fenced facility is 1.5 nm west of Semiluki and 7 nm west of Voronezh. It contains a self-supporting lattice tower 69.0 meters (226 feet) high with two R60/120 periscopic antennas and a control building. [REDACTED]

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8. Yablochnoye Radio Relay Station Northeast, [REDACTED] 51-18-30N 039-02-00E. This fenced facility is 0.5 nm northeast of Yablochnoye (Figure 2). It contains a self-supporting lattice tower 69.0 meters (226 feet) high with two R60/120 periscopic antennas, a control building, and five support buildings. [REDACTED]

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9. Ostrogozhsk Radio Relay Station West, [REDACTED] 50-51-10N 039-01-20E. This fenced facility is 1 nm west of Ostrogozhsk. It contains a self-supporting lattice tower 60.0 meters (197 feet) high with two R60/120 periscopic antennas, a control building, and three support buildings. [REDACTED]

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10. Alekseyevka Radio Relay Station, [REDACTED] 50-40-55N 038-58-05E. This fenced facility is 9.7 nm north-east of Alekseyevka. It contains a self-supporting lattice tower 73.0 meters* (240 feet) high with two R60/120 periscopic antennas and a control building. [REDACTED]

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11. Sovetskoye Radio Relay Station Southwest, [REDACTED] 50-17-35N 038-58-32E. This fenced facility is 17 nm west of Olkhovatka. It contains a self-supporting lattice tower [REDACTED] with two R60/120 periscopic antennas and a control building. [REDACTED]

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12. Rovenki/Adyar Radio Relay Station, [REDACTED] 49-51-40N 039-00-30E. This fenced facility is 3.9 nm southeast of Rovenki. It contains a self-supporting lattice tower [REDACTED] with two R60/120 periscopic antennas and a control building. [REDACTED]

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13. Starobelsk Radio Relay Station East, [REDACTED]
49-17-35N 039-12-05E. This fenced facility is 10.3 nm east
of Starobelsk (Figure 3). It contains a self-supporting lattice
tower [REDACTED] high with two R60/120 periscopic
antennas and a control building. [REDACTED]

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14. Alekseyevka/Dmitrievka Radio Relay Station, BE
[REDACTED] 48-59-20N 039-16-35E. This fenced facility is
4.1 nm east of Alekseyevka. It contains a self-supporting
lattice tower [REDACTED] with two R60/120
periscopic antennas and a control building. The antennas
[REDACTED]

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15. Lugansk Radio Relay Station, [REDACTED]
48-34-55N 039-25-20E. This fenced facility is on the eastern
edge of Lugansk. It contains a self-supporting lattice tower
[REDACTED] with only one discernible R60/120
periscopic antenna, a control building, and four support buildings.
[REDACTED]

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16. The microwave facilities at Lugansk, in addition
to Lugansk Radio Relay Station, include Voroshilovgrad Radio
Relay and TV and FM Broadcast Center [REDACTED] This
facility is located in the center of Lugansk, but it is not
a part of the Voronezh - Rostov microwave line. It consists
of a TV broadcast antenna mounted on a 200.0-meter (656-foot)
self-supporting lattice tower, an R600 microwave antenna
mounted on the side of the tower, and an adjacent control
building. [REDACTED]

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4). No correspondent could be discerned. [REDACTED]
[REDACTED]

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17. Semoykino Radio Relay Station, [REDACTED] 48-
18-35N 039-29-00E. This fenced facility is 1.8 nm southwest
of Semoykino. It contains a self-supporting lattice tower
59.0 meters (194 feet) high with two R60/120 periscopic antennas
and a control building. [REDACTED]

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18. Rovenki Radio Relay Station, [REDACTED] 48-04-21N
039-29-40E. This fenced facility is on the eastern edge of
Rovenki. It contains a self-supporting lattice tower [REDACTED]
[REDACTED] with only one discernible R60/120

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periscopic antenna, a control building, and three support buildings. [REDACTED]

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19. Rodionovo-Nesvetayskoye Radio Relay Station, BE
47-35-10N 039-40-30E. This fenced facility is
1.8 nm southwest of Rodionovo-Nesvetayskoye. It contains a
self-supporting lattice tower [REDACTED]
with two R60/120 periscopic antennas and a control building.

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[REDACTED] No
correspondent could be identified at Rostov.

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REFERENCES

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MAPS OR CHARTS

Various ACIC Charts, Series 200, scale 1:200,000

REQUIREMENT

NPIC/IEG/WGD/SSB Project 251450

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